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1   Digital rights management in a 3G mobile phone and beyond

Thomas S. Messerges, Ezzat A. Dabbish

October 2003   **DRM '03:** Proceedings of the 3rd ACM workshop on Digital rights management

Publisher: ACM

Full text available: 📄 Pdf (306.59 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 30,   Downloads (12 Months): 287,   Citation Count: 9

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

2   A secure infrastructure for service discovery and access in pervasive computing

Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi

April 2003   **Mobile Networks and Applications**, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: 📄 Pdf (308.34 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 155,   Citation Count: 10

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables ...

Keywords: distributed services, extensible markup language, pervasive computing, security, smartcards

3 OceanStore: an architecture for global-scale persistent storage

John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishna Gummadi, Sean Rhea, Hakim Weatherspoon, Chris Wells, Ben Zhao

December 2000

ASPLOS-IX: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: pdf (166.53 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 261, Citation Count: 234

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. ...

Also published in:
December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5
December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

4 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote, Jr.

May 2000

dg.o '00: Proceedings of the 2000 annual national conference on Digital government research

Publisher: Digital Government Research Center

Full text available: pdf (539.99 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 173, Citation Count: 0

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet ...

5 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote, Jr.

May 2002

dg.o '02: Proceedings of the 2002 annual national conference on Digital government research

Publisher: Digital Government Research Center

Full text available: pdf (539.99 KB)

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 93, Citation Count: 0

6 Decentralized user authentication in a global file system

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

December 2003 **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: Pdf (144.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 132, Citation Count: 8

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

Also published in:
December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

7 Extending document management systems with user-specific active properties

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Publisher: ACM

Full text available: Pdf (166.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 270, Citation Count: 42

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful ...

Keywords: active properties, component software, document management systems, document services, user experience

8 Certificate validation service using XKMS for computational grid

Namje Park, Kiyoung Moon, Sungwon Sohn

October 2003 **XMLSEC '03:** Proceedings of the 2003 ACM workshop on XML security

Publisher: ACM

Full text available: Pdf (7.01 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 75, Citation Count: 1

A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each ...

Keywords: GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

9 Joint Policy Management and Auditing in Virtual Organizations

Timothy J. Smith, Lavanya Ramakrishnan

November 2003   **GRID '03:** Proceedings of the 4th International Workshop on Grid Computing

Publisher: IEEE Computer Society

Full text available: pdf (161.88 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 20,   Citation Count: 2

A major problem facing organizations using grid-computingmodels is the reluctance to participate in multi-organizationalcollaborative environments due to securityconcerns, such as unauthorized access, and fair resourceusage. The Joint control of Virtual ...

10 Defending against redirect attacks in mobile IP

Robert H. Deng, Jianying Zhou, Feng Bao

November 2002   **CCS '02:** Proceedings of the 9th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf (266.04 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 103,   Citation Count: 2

The route optimization operation in Mobile IP Version 6 (MIPv6) allows direct routing from any correspondent node to any mobile node and thus eliminates the problem of "triangle routing" present in the base Mobile IP Version 4 (MIPv4) protocol. Route ...

Keywords: authenticated key-exchange, mobile IP, mobile IP security, redirect attack, secure binding update

11 An infrastructure for managing secure update operations on XML data

Elisa Bertino, Giovanni Mella, Gianluca Correndo, Elena Ferrari

June 2003   **SACMAT '03**: Proceedings of the eighth ACM symposium on Access control models and technologies
Publisher: ACM

Full text available: Pdf (317.55 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 40, Citation Count: 3

Secure exchange of data over the web is becoming more and more important today. By secure data exchange we mean that privacy and integrity are ensured when documents flow among different parties. A key issue in this scenario is how to ensure that web ...

Keywords: XML, distributed updates, integrity check protocols

12 Secure and flexible certificate access in WS-security through LDAP component matching

Sang Seok Lim, Jong Hyuk Choi, Kurt D. Zeilenga

October 2004   **SWS '04**: Proceedings of the 2004 workshop on Secure web service
Publisher: ACM

Full text available: Pdf (349.56 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 85, Citation Count: 1

As an integral part of the Web Services Security (WS-Security), directory services are used to store and access X.509 certificates. Lightweight Directory Access Protocol (LDAP) is the predominant directory access protocol for the Internet, and hence ...

Keywords: LDAP, PKI, X.509 certificate, certificate repository, component matching

13 A reputation-based approach for choosing reliable resources in peer-to-peer networks

Ernesto Damiani, De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati, Fabio Violante

November 2002   **CCS '02**: Proceedings of the 9th ACM conference on Computer and communications security
Publisher: ACM

Full text available: Pdf (650.19 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 338, Citation Count: 42

Peer-to-peer (P2P) applications have seen an enormous success, and recently introduced P2P services have reached tens of millions of users. A feature that significantly contributes to the success of many P2P applications is user anonymity. However, anonymity ...

Keywords: peer-to-peer network, polling protocol, reputation-based systems

14 Tarzan: a peer-to-peer anonymizing network layer

Michael J. Freedman, Robert Morris

November 2002   **CCS '02:** Proceedings of the 9th ACM conference on Computer and communications security

Publisher: ACM

Full text available: 📄 pdf (242.72 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 165, Citation Count: 44

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...

Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

15 Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

April 2003   **Mobile Networks and Applications** , Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf (107.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 141, Citation Count: 1

The logic ruling the user and network authentication as well as the data ciphering in the GSM architecture is characterized, regarding the transferring of the parameters employed in these processes, by transactions between three nodes of the system, ...

Keywords: PKIs, PLMNs, asymmetric cryptography

16 Anonymity and accountability in self-organizing electronic communities

Csilla Farkas, Gábor Ziegler, Attila Meretei, András Lőrincz

November 2002   **WPES '02**: Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society

Publisher: ACM

Full text available: Pdf (355.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 66,   Citation Count: 3

In this paper we study the problem of anonymity versus accountability in electronic communities. We argue that full anonymity may present a security risk that is unacceptable in certain applications; therefore, anonymity and accountability are both needed. ...

Keywords: accountability, anonymity, authentication, privacy, self-organizing community

17 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002   **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: Pdf (365.68 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 81,   Citation Count: 8

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device ...

Keywords: location services, name lookup, network protocols, service discovery

18 OceanStore: an architecture for global-scale persistent storage

John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishan Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, Ben Zhao

November 2000   **SIGPLAN Notices**, Volume 35 Issue 11

Publisher: ACM

Full text available: Pdf (1.47 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 82,   Citation Count: 4

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. ...

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